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Geographic information — Geodetic register

Information géographique — Registre géodésique

ISO 19127

**Second edition
2026-08**

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Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Conformance	1
5 Conventions	1
6 Audience and accessibility	1
7 ISO Geodetic Register roles and responsibilities	2
7.1 General	2
7.2 Register owner	2
7.3 Register manager	2
7.4 Control body	2
7.4.1 Control body responsibilities	2
7.4.2 Control body membership	3
7.4.3 Approval of register content	3
7.4.4 Reporting	3
7.5 Register system manager	3
7.6 Proposer	3
7.7 Register user	4
8 ISO Geodetic Register governance processes	4
8.1 Proposal process	4
8.2 Approval process	5
8.2.1 General	5
8.2.2 Addition	5
8.2.3 Modification	5
8.2.4 Retirement	6
8.3 Appeal process	6
8.4 Content management process	6
8.5 Statuses	7
9 ISO Geodetic Register system content requirements	7
9.1 Identifiers	7
9.2 Register item classes	8
9.3 Register items	8
10 ISO Geodetic Register content requirements	8
Annex A (normative) Abstract test suite	12
Annex B (normative) ISO Geodetic Register content	13
Annex C (informative) Best practices for the ISO Geodetic Register content	35
Annex D (informative) Metadata	46
Bibliography	49

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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This document was prepared by Technical Committee ISO/TC 211, *Geographic information/Geomatics*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 287, *Geographic Information*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 19127:2019), which has been technically revised.

The main changes are as follows:

- updates to ISO 19111:2019 and ISO 19135:2026 have been incorporated.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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This document governs procedures for the ISO 19127 geodetic register, but can also have applicability to similar national and international registers of geodetic information.

The ISO 19127 geodetic register and the ISO 19127 geodetic register system are referred to as the “ISO Geodetic Register” and “ISO Geodetic Register system”, respectively, throughout this document.

ISO 19135 provides for the structural and governance requirements of a register and its management. Register management processes include the establishment, management, operation and publication of a register.

ISO 19111 describes elements necessary to define various types of coordinate reference systems applicable to geographic information. The subset of elements required is partially dependent upon the type of coordinates. Optional fields allow for the inclusion of metadata about the coordinate reference systems. ISO 19111 also provides for the description of a coordinate operation between two different coordinate reference systems or a coordinate operation to account for crustal motion over time. With such information, spatial data referenced to different coordinate reference systems can be referenced to one specified coordinate reference system at a specified time.

This document describes how the structural, governance and management requirements within ISO 19135 are applied to the ISO Geodetic Register of elements applicable to geodetic referencing by coordinates in accordance with ISO 19111. Reference can be made to other register system codes as aliases within the ISO Geodetic Register.

[Annex A](#) provides four tests to be applied to verify conformance to this document.

[Annex B](#) provides tables that specify information for elements to be included in the ISO Geodetic Register.

[Annex C](#) provides best practices for the ISO Geodetic Register content.

[Annex D](#) provides the metadata for the ISO Geodetic Register.

The name and contact information of the registration authority and the maintenance agency for this document can be found at www.iso.org/maintenance_agencies.

In accordance with the ISO/IEC Directives, Part 2, 2021, *Principles and rules for the structure and drafting of ISO and IEC documents*, “The decimal sign shall be a comma on the line in all language versions”. However, the General Conference on Weights and Measures (*Conférence Générale des Poids et Mesures*) at its 22nd meeting in 2003, unanimously passed resolution 10, which reads as follows:

“The decimal marker shall be either the point on the line or the comma on the line.”

In practice, the choice between these alternatives depends on customary use in the language concerned. In the technical areas of geodesy and geographic information it is customary for the decimal point to be used, for all languages. That practice is used throughout this document.